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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,389	07/17/2003	Osamu Kakuchi	00684.002980.1	8110
5514	7590	03/15/2005		EXAMINER
		FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112		CONNOLLY, PATRICK J
			ART UNIT	PAPER NUMBER
			2877	

DATE MAILED: 03/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/620,389	KAKUCHI ET AL.
	Examiner	Art Unit
	Patrick J. Connolly	2877

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 21 January 2005.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 16,17,20-23 and 28-33 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) 20-23 and 28 is/are allowed.
 6) Claim(s) 16,17 and 29-33 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 17 July 2003 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. 09/533,377.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____
 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____

DETAILED ACTION

Double Patenting

Claims 16, 17 and 29-33 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-15 of U.S. Patent No. 6,614,535.

Although the conflicting claims are not identical, they are not patentably distinct from each other because of the following:

The exposure and manufacturing methods of instant claims 16 and 17 follow from the patented apparatus of claims 1-15 of '535. The method of using the apparatus is obviously within the scope of the patented apparatus.

The exposure apparatus of instant claims 19-23 follow from the patented exposure apparatus of claims 1-15 of '535.

Allowable Subject Matter

Claims 16, 17 and 29-33 would be allowable if a timely Terminal Disclaimer was filed, as set forth in the analysis above.

The following is a statement of reasons for the indication of allowable subject matter:

As to claims 16 and 17, the prior art of record, taken alone or in combination, fails to disclose or render obvious a method including: projecting a pattern of a reticle onto an object to be exposed by use of a projection optical system; and measuring an optical characteristic of the projection optical system by use of an interferometer and on the basis of light from the exposure source, in combination with the rest of the limitations of claims 16 and 17.

As to claims 29-32, the prior art of record, taken alone or in combination, fails to disclose or render obvious a projection exposure apparatus including: a projection optical system for

projecting a pattern of a reticle illuminated with light from a light source, onto an object to be exposed; and an interferometer for measuring an optical characteristic of said projection optical system by use of light from the light source, in combination with the rest of the limitations of claims 29-32.

Claims 20-23 and 28 are allowed.

The following is an examiner's statement of reasons for allowance:

As to claims 20 and 28, the prior art of record, taken alone or in combination, fails to disclose or render obvious a projection exposure apparatus including: a projection optical system for projecting a pattern onto an object to be exposed; an interferometer for measuring an optical characteristic of said projection optical system; and an adjusting mechanism for adjusting aberration of said projection optical system on the basis of the result of the measurement by said interferometer, in combination with the rest of the results of claims 20 and 28.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

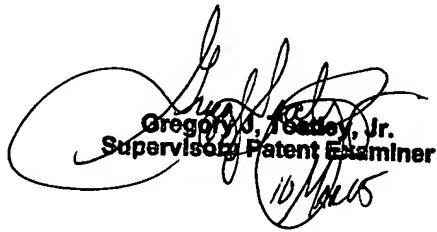
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick J. Connolly whose telephone number is 571.272.2412. The examiner can normally be reached on 9:00 am- 7:00 pm Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr. can be reached on 571.272.2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

pjc P1L
05.10.2005



Gregory J. Toatley, Jr.
Supervisor, Patent Examiner
10/10/05